

batteries. Yoshino, Akira; Nakajima, Takayuki (Asahi Chemical Industry Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 60262351 A2 19851225 Showa, 5 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1984-116659 19840608.

AB The title **anode** consists of a conductive org. polymer and a Li alloy. The **anode** has a high Li utilization value in cyclic operations. Thus, a sheet material was obtained on a glass plate by spreading a mixt. of 20 g of 5% slurry of polyacetylene (prepd. by slurry polymn.) in PhMe and 4 g of 1:1 (at. ratio) Li-Al alloy, and drying. A **battery** prepd. from an **anode** cut out from this sheet (1 .times. 1 cm, 250.mu.), a TiS₂-Teflon **cathode**, and a 0.6M LiClO₄ in propylene carbonate electrolyte was cycled at 4 mA between 3.0 and 1.8 V. The initial Li utilization value was 56%. A similar **battery** using an **anode**, prepd. by coating Al foil with the above mixt. on both sides but using a 0.93:1 Li-Al alloy, showed an initial Li utilization of 89%, which was maintained approx. at the same level during >200 cycles between 4.1 and 2.8 V.

IT 102578-47-2

(polyacetylene **anodes** contg., performance of, for **batteries**)

RN 102578-47-2 HCA

CN Silicon alloy, base, Si 87,Li 13 (9CI) (CA INDEX NAME)

Component	Component Percent	Component Registry Number
Si	87	7440-21-3
Li	13	7439-93-2

IC ICM H01M004-40

ICS H01M010-40

CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology) Section cross-reference(s): 38

ST titanium sulfide lithium **battery**; **anode**
polyacetylene lithium aluminum alloy

IT **Anodes**

(**battery**, lithium alloy-contg. polyacetylene, manuf. and performance of)

IT 25067-58-7 25233-34-5

(lithium alloy **anodes** contg., performance of, for **batteries**)

IT 74711-65-2 101898-82-2 102578-42-7 102578-43-8 102578-44-9

102578-45-0 102578-46-1 102578-47-2 102578-48-3

102604-29-5 102619-91-0

(polyacetylene **anodes** contg., performance of, for **batteries**)

L27 ANSWER 17 OF 18 HCA COPYRIGHT 2003 ACS on STN

93:194424 **Nonaqueous** electrolyte **battery**. (Sanyo

Electric Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 55064378

19800515 Showa, 2 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP

1978-138060 19781106.

AB A **nonaq.** electrolyte **battery** is provided with a Li-Si alloy **anode**, a **nonaq.** electrolyte, and a **cathode** obtained from an active material (e.g. CuO, Fe sulfide) which in combination with a Li **anode**-active material generates a const. discharge potential of .apprx.1.5 V.

IT 75418-59-6

(anodes, in **nonaq.** battery)

RN 75418-59-6 HCA

CN Lithium alloy, base, Li,Si (9CI) (CA INDEX NAME)

Component	Component Registry Number
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=====+=====

Li	7439-93-2
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Si	7440-21-3
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IC H01M006-16; H01M004-06

CC 72-2 (Electrochemistry)

ST **battery nonaq** lithium silicon **anode**;
cupric oxide **cathode nonaq battery**;
iron sulfide **cathode nonaq battery** ;

IT **Batteries**, primary
(lithium, **nonaq.**)

IT 75418-59-6

(anodes, in **nonaq.** battery)

IT 1317-38-0, uses and miscellaneous 11126-12-8

(cathodes, in lithium **nonaq.** battery
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L27 ANSWER 18 OF 18 HCA COPYRIGHT 2003 ACS on STN

85:180109 Lithium **electrode** and an electrical energy storage device containing it.. Lai, San-Cheng (Rockwell International Corp., USA). U.S. US 3969139 19760713, 8 pp. (English). CODEN: USXXAM. APPLICATION: US 1975-605691 19750818.

AB An improved Li-**anode** structure for secondary **batteries** with molten-salt or **nonaq.** electrolytes comprises a Li-Si alloy and a supporting current-collecting matrix.

IT 60307-00-8 61048-14-4

(anodes from porous metal matrix contg., secondary-
battery)

RN 60307-00-8 HCA

CN Lithium alloy, base, Li 60,Si 40 (9CI) (CA INDEX NAME)

Component	Component Percent	Component Registry Number
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=====+=====

Li	60	7439-93-2
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Si	40	7440-21-3
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RN 61048-14-4 HCA

CN Silicon alloy, base, Si 55,Li 45 (9CI) (CA INDEX NAME)

Component	Component Percent	Component Registry Number
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Si	55	7440-21-3
Li	45	7439-93-2

IC H01M010-00

NCL 136006000LN

CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)

ST lithium silicon **battery anode**

IT **Anodes**

(**battery**, lithium-silicon alloy-impregnated porous
metal matrix)

IT 7440-32-6, uses and miscellaneous 11121-90-7, uses and
miscellaneous

(**anodes** from lithium-silicon alloy-impregnated,
secondary-**battery**)

IT 60307-00-8 61048-14-4

(**anodes** from porous metal matrix contg., secondary-
battery)